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State of Utah

DEPARTMENT OF NATURAL RESOURCES

Division of Oil, Gas & Mining

MICHAEL R. STYLER
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Inspection Report

Minerals Regulatory Program

Report Date October 14, 2005

Supervisor DRH

Mine Name: Hardaway
Operator Name: Ziegler Chemical

Permit number: S/047/072
Inspection Date: September 1, 2005
Time: 3:15-3:30 PM

Inspector(s): Paul Baker
Other Participants: Stan Wagner, Ziegler
Mine Status: Reclaimed

Weather: Clear, 80's

Elements of Inspection	Evaluated	Comment	Enforcement
1. Permits, Revisions, Transfer, Bonds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Public Safety (shafts, adits, trash, signs, highwalls)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Protection of Drainages / Erosion Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Deleterious Material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Roads (maintenance, surfacing, dust control, safety)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Concurrent Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Backfilling/Grading (trenches, pits, roads, highwalls, shafts, drill holes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Water Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Revegetation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Air Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Purpose of Inspection:

The operator requested that the site be released, so the purpose of the inspection was to see whether the vegetation meets release criteria.

Directions to Site:

I took a GPS point at the site, and a copy of the map created using this point is attached to this report. The site is in the Center Fork of Asphalt Wash about 1/3 mile south of the confluence with the Center Fork.

Inspection Summary:

10. Revegetation

Vegetation in the area that was disturbed consists almost entirely of cheatgrass and Russian thistle (Photos 1 and 2) with a little western wheatgrass. In other ways, the site appears to meet release criteria. There are some pre-law disturbances adjacent to the site that were not reclaimed.

Conclusions and Recommendations:

The disturbed area is not large, and I recommend that the operator use glyphosate (Roundup) to spray the cheatgrass this fall. The area could then be seeded then raked or dragged. I recommend a seed mix that includes western wheatgrass, Russian wild rye, crested wheatgrass, and possibly greasewood.

Inspector's Signature Paul Baker

Date: October 14, 2005

PBB:jb

cc: Gordon Ziegler, Ziegler
Stan Wagner, Ziegler
Attachment: GPS & Photos

ATTACHMENT

Photographs

NameS/047/072, Hardaway Mine, Ziegler Chemical

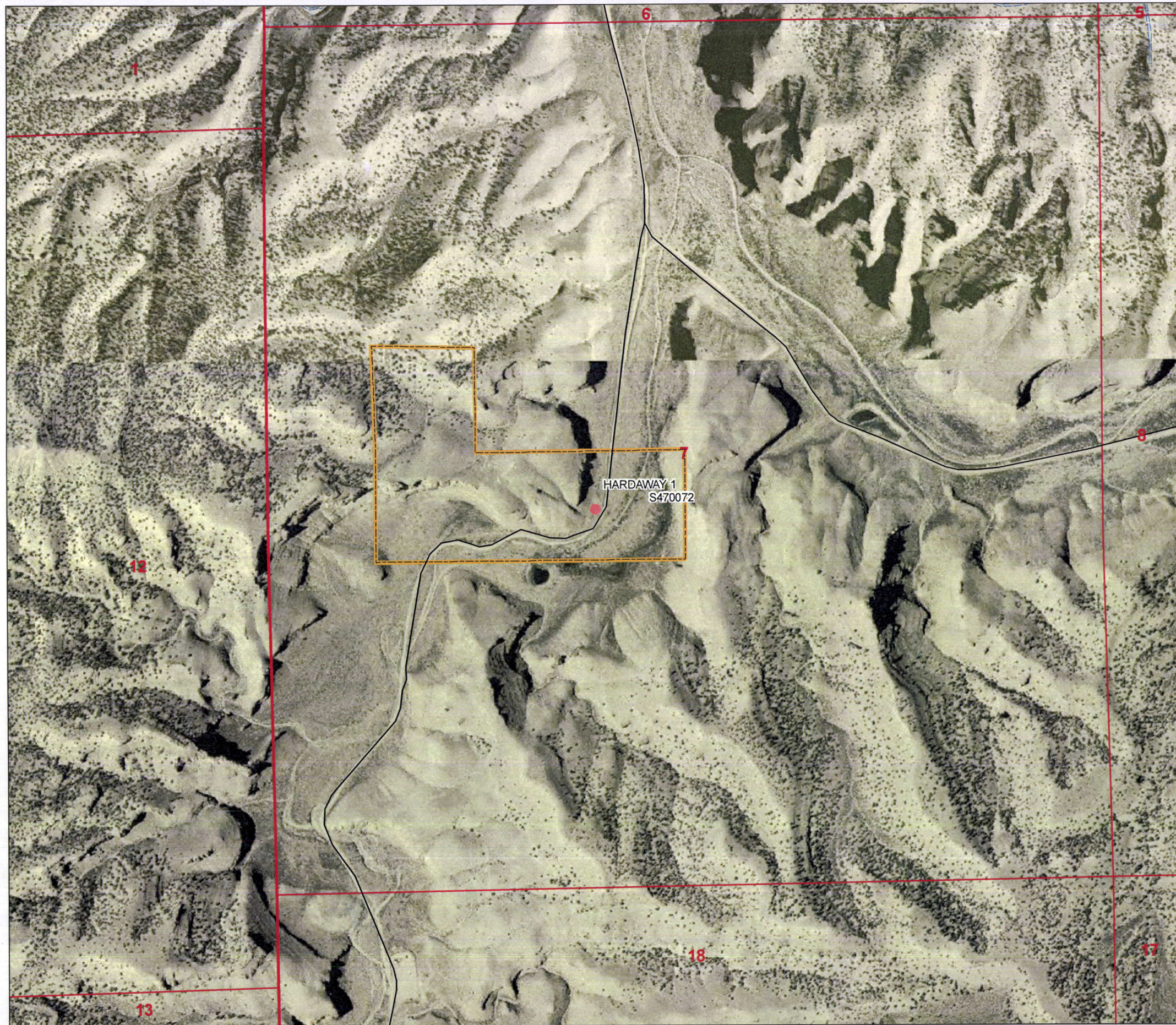
Inspection Dated: September 1, 2005; Report Dated: October 14, 2005



Photo 1. The mine area. The tan-colored vegetation is cheatgrass, and the green plants in the foreground are Russian thistle. There is some western wheatgrass and greasewood.



Photo 2. This shows some of the western wheatgrass.



Mine Number: S470072
Mine Name: Hardaway 1
Township 11 S Range 24 E Section 07 SLBM

Inspection Date Sept. 01, 2005
Map Produced by DKS

Acres Disturbed	0
Acres Regraded	0
Acres Seeded	0
Road Acres Disturbed	0

Total Acres Disturbed	0
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Acres Reclaimed	0
Acres Excluded	0
Acres Prelaw	0

Legend
All items symbolized in legend may not be appear on map

- | | |
|-----------------|---|
| County Boundary | Township or range Line |
| Access | Township or range line: location doubtful |
| Mine | Section line |
| NonMine | Section line: location doubtful |
| Other | Disturbed |
| Interstate | Regraded |
| US Route | Seeded |
| State Route | Reclaimed |
| Primary Route | Excluded |
| Secondary Route | Prelaw |
| Main Dirt Road | Mine Permit |
| Unimproved Road | |
| Interchange | |
| Trail | |

DOQ imagery date 2004



0 625

Feet
1:7,500 1 inch equals 625 feet
Verify Scale

Dept. of Natural Resources
Division of Oil, Gas, and Mining
Mineral Mines Program

Different data sources and input scales
may cause misalignment of data layers.
This product may not meet DOGM
standards for accuracy and content.